```
7 9 10
   1 2 3
             5
                         18
ring nodes :
                                                    26 27 28 29 30 31 32 33 34
                                 21
                                     22
                                         23
                                            24
                                                25
          14
              15
                  16
                      17
                          19
                             20
   42 43 44 45
                      47
                          48
                             49
                                 50
                                     51
                  46
chain bonds :
   1-2 1-5 1-54 3-5 4-5 16-18
ring bonds :
                                                              21-22 22-23 23-24
                                                                                  25-26
   12-13
               13-14 14-15
                            15-16
                                   16-17
                                          19-20 19-24
                                                        20-21
         12-17
                                           30-34
                                                 31-32
                                                       32-33
                                                              33-34 42-43 42-47 43-44
                       28-29
                             29-30
                                    29-31
   25-30 26-27
                27-28
                                    48-49 49-50
                                                 50-51
   44-45 45-46 46-47
                       46-48 47-51
exact/norm bonds :
   1-2 1-54 3-5 4-5
exact bonds :
   1-5 16-18
normalized bonds :
   12-13 12-17 13-14
                       14-15 15-16
                                    16-17
                                           19-20 19-24
                                                        20-21
                                                               21-22 22-23
                                                                            23-24
                                                                                  25-26
                                                 31-32
                                                        32-33
                                                              33-34 42-43 42-47
                                                                                  43-44
   25-30 26-27 27-28
                       28-29
                                    29-31
                             29-30
                                           30-34
   44-45 45-46 46-47 46-48 47-51
                                    48-49
                                          49-50
                                                 50-51
isolated ring systems :
   containing 19 : 25 : 42 :
```

chain nodes :

Connectivity:

Match level :

G1: [\*1], [\*2], [\*3], [\*4], [\*5], [\*6], [\*7]

10:1 E exact RC ring/chain

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 9:Atom 10:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:Atom 54:CLASS

## Generic attributes :

7

Saturation : Saturated

9:

Saturation : Saturated

10:

Saturation : Unsaturated

Element Count :

Node 7: Limited C,C1-12

Node 10: Limited C,C2-6

```
1 2 3
           4 5 7 9 10
                          18
ring nodes :
                                        23 24 25 26 27 28 29 30 31 32 33 34
                                 21
                                     22
   12 13 14
              15 16
                      17
                         19
                             20
   42 43 44
              45
                  46
                      47
                         48
                             49
                                 50
                                     51
chain bonds :
   1-2 1-5 1-54 3-5 4-5 16-18
ring bonds :
   12-13
         12-17
               13-14 14-15 15-16
                                   16-17 19-20 19-24
                                                       20-21 21-22
                                                                    22-23
                                                                           23-24
                                                                                 25-26
                                    29-31
                                                 31-32
                                                       32-33 33-34 42-43 42-47
                                                                                 43-44
               27-28 28-29 29-30
                                          30-34
   25-30 26-27
   44-45 45-46 46-47 46-48 47-51
                                   48-49
                                          49-50
exact/norm bonds :
   1-2 1-54 3-5 4-5
exact bonds :
   1-5 16-18
normalized bonds :
   12-13 12-17 13-14 14-15 15-16
                                   16-17
                                          19-20 19-24
                                                       20-21
                                                              21-22 22-23
                                                                           23-24
                                                                                 25-26
                                                       32-33
                                                              33-34 42-43 42-47
                                                                                 43-44
   25-30 26-27 27-28
                       28-29
                             29-30
                                    29-31
                                          30-34
                                                 31-32
   44-45 45-46 46-47 46-48 47-51
                                   48-49
                                          49-50 50-51
isolated ring systems :
   containing 19 : 25 : 42 :
```

G1: [\*1], [\*2], [\*3], [\*4], [\*5], [\*6], [\*7]

## Connectivity :

chain nodes :

10:1 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 9:Atom 10:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 34:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:Atom 54:CLASS

Generic attributes :

7 :

Saturation : Saturated

9:

Saturation : Saturated

10:

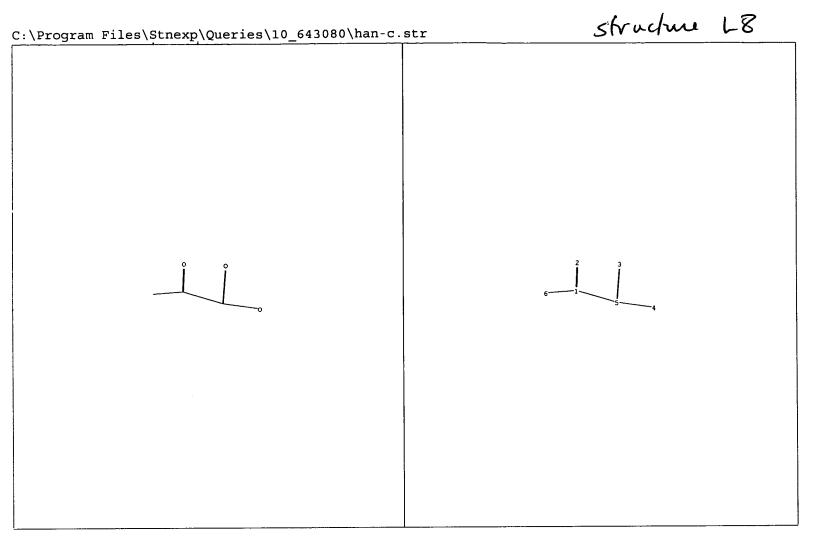
Saturation : Unsaturated

Element Count :

Node 7: Limited C,C1-12

Node 10: Limited

C,C2-6



chain nodes :
1 2 3 4 5
ring/chain nodes :

•

chain bonds :

1-2 1-5 1-6 3-5 4-5

exact/norm bonds : 1-2 3-5 4-5

exact bonds:

1-5 1-6

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS

C:\Program Files\Stnexp\Queries\10\_643080\han-d.str

chain nodes :

ring nodes :

G2:[\*8],[\*9]

1 2 3 4 5

```
29 30 31 32 33 34
                                 21
                                     22
                                        23
                                            24 25 26 27
                                                           28
   12 13 14
              15
                  16
                      17
                         19
                             20
   42 43 44 45
                      47
                         48
                             49
                                 50
                                     51
                  46
ring/chain nodes :
   57
chain bonds :
   1-2 1-5 1-54 3-5 5-61 16-18 56-57
ring bonds :
                                          19-20 19-24
                                                       20-21 21-22 22-23
                       14-15
                             15-16
                                    16-17
   12-13 12-17 13-14
                                                 31-32 32-33 33-34 42-43 42-47 43-44
   25-30 26-27 27-28
                      28-29
                             29-30
                                    29-31
                                          30-34
   44-45 45-46 46-47 46-48 47-51
                                   48-49
                                          49-50 50-51
exact/norm bonds :
   1-2 1-54 3-5 5-61 56-57
exact bonds :
   1-5 16-18
normalized bonds :
                                                       20-21 21-22 22-23
                                                                           23-24
                                                                                  25-26
   12-13 12-17 13-14 14-15 15-16
                                   16-17
                                          19-20 19-24
                                                       32-33 33-34 42-43 42-47 43-44
   25-30 26-27 27-28
                      28-29
                             29-30
                                   29-31
                                          30-34
                                                 31-32
   44-45 45-46 46-47
                       46-48
                            47-51
                                   48-49
                                          49-50 50-51
isolated ring systems :
   containing 19 : 25 : 42 :
```

56

54

7 9 10

G1: [\*1], [\*2], [\*3], [\*4], [\*5], [\*6], [\*7]

18

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Connectivity:
4:1 E exact RC ring/chain 10:1 E exact RC ring/chain
Match level:

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 9:Atom 10:CLASS 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 34:Atom 42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom

51:Atom 54:CLASS 56:CLASS 57:CLASS 61:CLASS

Generic attributes :

7:

Saturation : Saturated

9:

Saturation : Saturated

10:

Saturation : Unsaturated

Element Count :

Node 7: Limited C,C1-12

Node 10: Limited C,C2-6